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### Geography & GIScience Collection Development Policy

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## **Geography & GIScience Collection Development Policy**

University Libraries, University of Nebraska-Lincoln

David C. Tyler, Geography Liaison Librarian, November, 2009

Approved: CDC December 2, 2009

### **I. GENERAL ACADEMIC PROGRAM INFORMATION**

The geography collection supports the teaching, research and service activities of the entire university community. Its primary audience is the faculty, staff, and students of the Faculty of Geography & GIScience in the School of Natural Resources. Its primary focus is support for the undergraduate and graduate curricula for geography. Specific and transient research needs of geography faculty and graduate students should be supplemented through Interlibrary Loan. Materials are not purchased for the general public, though they may benefit from the collection.

While the collection focuses on works classified in Geography G through Human Ecology. Anthropogeography GF, curriculum and research support is also provided by works classified as belonging to area studies, history, anthropology, archaeology, psychology, regional economics/development, urban planning, public health, climatology, physiography and many other topics. Works on remote sensing and geographic information systems (GIS) classified as belonging to agriculture, biology, geology, or engineering have become increasingly pertinent. In fact, GIS and remote sensing are the single largest growth areas in geography.

Also noteworthy are digital geospatial data and other resources, such as those maintained by the University Libraries' geosciences librarian, that essential to geography (See <http://www.unl.edu/libr/gis/>)

In essence, there are no clear limitation to the faculty's interests; the common points of intersection would simply be space and place.

### **Faculty of Geography & GIScience**

As the program notes in its undergraduate brochure: the undergraduate geography program "provides a broad liberal arts education in physical, human and regional geography, combined with courses in geographic information science (remote sensing, GIS and cartography), research and writing skills, and quantitative methods". The major in geography is comprised of seven mandatory courses with a "common core in human-environment relations" (e.g., physical and human geography, environmental issues and human ecology, world regions, and techniques and methodology, etc.). Geography offers the following undergraduate specializations: cartography, environmental geography, geographical information science, Great Plains studies, and historical geography.

For more than a century, the University of Nebraska-Lincoln has been internationally recognized as a center of excellence in geographic education and research. Between 2001 and 2009, the former geography department was temporarily conjoined with the anthropology department, with the department's human geographers and cartographers serving in the Department of Anthropology & Geography and the department's physical geographers moving to the Geosciences Department, but the faculty have since moved to the School of Natural Resources and established themselves as the Faculty of Geography & GIScience.

As of the fall of 2009, the Faculty of Geography & GIScience was comprised of seventeen core faculty and four lecturers. Eight affiliated faculty work closely with the core faculty. These faculty, collectively, have the following areas of interest:

#### CORE FACULTY:

- Douglas M. Amedeo, Professor – spatial theory, environment and behavior, diffusion;
- J. Clark Archer, Professor – political, settlement, computer cartography, GIS;
- Kenneth Dewey, Professor – climate variations, severe weather;
- Qingfeng (Gene) Guan, Assistant Professor – geographic information systems, environmental modeling;
- Paul R. Hanson, Assistant Professor – geomorphology, physical geography of the Great Plains;
- R. M. (Matt) Joeckel, Associate Professor – surficial processes, soils and weathering, the Great Plains;
- Cody Knutson, Research Assistant Professor – water resources and drought, risk management;
- Stephen J. Lavin, Professor and Chair of Graduate Program – map animation, communication and design;
- Merlin P. Lawson, Professor, Geosciences – climate change, climate reconstruction, remote sensing;
- Richard E. Lonsdale, Professor Emeritus – marginal lands, regional development;
- James W. Merchant, Professor – remote sensing, GIS;
- Sunil Narumalani, Professor and Geography Program Coordinator – GIS, remote sensing, environmental studies;
- Donald C. Rundquist, Professor – remote sensing, GIS;
- Robert H. Stoddard, Professor Emeritus – human/social geography, field techniques; South Asia;
- Brian D. Wardlow, Research Assistant Professor – remote sensing, GIS, drought, land use/land cover;
- Donald A. Wilhite, Professor and SNR Director – climate, drought, human dimensions;
- David J. Wishart, Professor and Chief Undergraduate Advisor – historical geography, indigenous peoples, Great Plains;

#### LECTURERS:

- Rebecca Buller – historical and cultural geography, historical geography of the Great Plains, women's and gender studies;
- Katherine Nashleanas – human geography, ethnic studies, Africa, human dimensions of natural resources;
- Albert Peters – satellite remote sensing, biogeography, physical geography;
- Juan Ramirez – Latin America, environmental and human evaluations using GIS, design of surveys, statistical analysis;

#### AFFILIATED FACULTY:

- Rodrigo F. Cantarero, Professor, Community and Regional Planning – planning, GIS;
- Anatoly Gitelson, Professor – remote sensing;
- Ge Lin, Associate Professor, University of Nebraska Medical Center – GIS, health geography;
- Brito Mutunayagam, Professor, Community and Regional Planning – planning theory, GIS;
- Yunwoo Nam, Assistant Professor, Community and Regional Planning – GIS, analytic methods in planning;

- Gordon Scholz, Professor, Community and Regional Planning – land development, planning;
- Michael Shambaugh-Miller, Assistant Professor, University of Nebraska Medical Center – health geography;
- Zhenghong Tang, Assistant Professor, Community and Regional Planning – GIS, risk analysis;

Geography & GIScience has particularly strong programs in Geographic Information Science (GIS), Historical and Human Geography, Natural Resources/Environmental Studies, and Community and Regional Planning.

Geography & GIScience offers both BA and BS degrees at the undergraduate level and a minor to students from other departments. At the graduate level, Geography & GIScience offers an MA and a Ph.D. Geography & GIScience also offers a specialized Certificate in Geographic Information Science (GISci) to graduate-level students and to advanced professionals.

In the fall of 2008, the faculty reported twenty undergraduate majors studying for the BA degree and eleven studying for the BS, thirteen graduate students studying for the MA, and nineteen studying for the PhD. Though Geography & GIScience may be one of the smaller departments on campus, its course offerings are very popular with students fulfilling their general education requirements: the conjoined anthropology and geography department reported 5,848 credit hours for the fall of 2008, of which 4,774 were offered at the 100- and 200-levels. In addition to providing the usual classroom offerings, the faculty, as well as students, are affiliated with several nationally-known research centers, including The Center for Advanced Land Management Information Technologies (CALMIT), The National Drought Mitigation Center, The High Plains Regional Climate Center, and The Center for Great Plains Studies. At various times, the faculty may be involved in the University Honors Program UNL Program of Excellence, and as members of the School of Natural Resources, several of the faculty may be involved in the “Water Resources Research Initiative” UNL Program of Excellence.

Geography & GIScience offers the following Achievement-Centered Education (ACE) certified geography courses for general education:

GEOG 140 Introductory Human Geography  
GEOG 155 Elements of Physical Geography  
GEOG 181 Quality of the Environment  
GEOG 272 Geography of World Regions  
GEOG 283 Space, the Environment and You  
GEOG 361 Urban Geography

For additional information on Geography & GIScience, its activities and programs, and its history, please see the following: <http://snr.unl.edu/geographygis/index.asp>

### **Library Collections**

To support the geography program, the library collection offers a wide range of materials on theory, methodology, technology and practices, history, agriculture, meteorology, climate, environmental science, geology, immigration and emigration, public health, area studies, and so

forth. Generally speaking, Research Level/Study Level collections should be maintained for human geography, for historical geography, for the study of water, ecology, and climate, for the study of land use, for the study of immigration and emigration, and for Geographic Information Science (GIS) and remote sensing. Study Level/Basic Level collections should be maintained for cartography, mathematical geography, physical geography, political geography, regional development and urban geography, and environmental psychology. A Basic Level/Minimal Level collection should be maintained for medical geography. To a lesser extent, the collection also provides information on careers.

Collections in some of these areas are guided by other collection development policies, including those written for Anthropology; Business; Economics; Education; Environmental Science; Family Studies; Geology; History; Law; Medicine and Dentistry; Medieval and Renaissance Studies; Native American Studies; Nineteenth Century Studies; Political Science; Sociology; and so forth.

## **II. GEOGRAPHICAL COVERAGE**

With respect to geography, the UNL Libraries should, if funding allows, aspire to collect resources on the Great Plains at a level approaching the Comprehensive Level. Otherwise, there should be no geographical limitations.

## **III. CHRONOLOGICAL COVERAGE**

There are no chronological limitations. Studies pertaining to the modern world or to prehistoric man, diachronic analysis, ancient and contemporary societies and migrations, methods and techniques, and the historical development of geography as a distinct discipline are all of interest and should be collected in compliance with the collection intensity levels designated above.

## **IV. IMPRINT DATE**

Primary emphasis should be on current imprints. Retrospective purchasing should be concentrated in those areas collected at the Comprehensive and Research Levels and should emphasize the completion of major sets, the acquisition of highly pertinent but not widely disseminated research reports, and/or the works of highly influential geographers. Retrospective purchasing for materials designated as being collected at the Study Level and below should be highly selective.

## **V. FORMAT**

### **Print Materials**

Most materials are acquired in the form of periodicals, serials, monographs, and atlases and maps. Geographical research is also heavily reliant on technical reports, occasional papers, and research reports released by universities, museums, and state and federal agencies, which form a significant portion of the field's output. Many of these items are published in paperback, and some are spiral bound. The collection should also include the proceedings and symposia of the major geographical associations, especially those reporting on Great Plains topics. Reference works dealing with the Great Plains and major reference works dealing with other areas of geography should be collected. Included in the latter are subject encyclopedias, atlases, and abstracting and indexing services. Textbooks are not normally collected, unless they are of

"classic" stature, are of graduate level, and/or have been requested by faculty. Non-UNL dissertations and theses on the Great Plains may be collected.

### **Non-Print Materials**

With respect to periodicals/serials and to reference works, preference should be given to materials available online or in dual print/online format, especially if such materials are free of continuing "maintenance" fees and if such materials allow for simultaneous access. Microformat collections, especially microfiche, are rarely collected; if funding allows, preference should be given to affordable online versions of such collections, especially if they offer value-added features such as full-text searching.

As GIS and remote sensing are of extreme importance to the future development of Geography & GIScience, datasets, databases, technologies, and equipment pertinent to GIS and remote sensing should very much receive favorable consideration.

## **VI. LANGUAGE**

English is the preferred language at all levels of collection intensity. Works in other languages may be collected selectively. No work should automatically be excluded on the basis of language alone. English translations are preferred, but translations into any of the major European languages may also be acceptable.

## **VII. CLASSIFICATION AND INTENSITY LEVEL**

### **Materials Selected with Funds Designated for Geography**

#### **CLASSIFICATION**

BF353 Environmental Psychology

CB450 Geography and civilization

D-DX World History and History of Europe, Asia, Africa, Australia, New Zealand, Etc. (Historical Geography of; Cartography of)

E History of the Americas (Historical Geography of; Cartography of)

F History of the Americas (Historical Geography of; Cartography of)

G1-922 Geography (General)

G65-69 Geographers

G70-70.6 Philosophy. Relation to other topics. Methodology

G80-99 History of geography

G100.5-108.5 Toponymy (Including gazetteers, geographic names and terms)

G140 Great cities of the world

G141 Historical geography

G142 Aerial geography

G149-180 Travel. Voyages and travels (General)

G154.9-155.8 Travel and state. Tourism

G200-336 History of discoveries, explorations, and travel

#### **INTENSITY LEVEL**

STUDY

OUT-OF-SCOPE

STUDY

STUDY

BASIC

RESEARCH

STUDY

RESEARCH

STUDY

STUDY

BASIC

STUDY

BASIC

MINIMAL

BASIC

BASIC

G369-503 Special voyages and travels	MINIMAL
G521-539 Adventures, shipwrecks, buried treasure, etc.	MINIMAL
G540-550 Seafaring life, ocean travel, etc.	MINIMAL
G575-890 Arctic and Antarctic regions	STUDY
G905-910 Tropics (General)	STUDY
G912-922 Northern and Southern Hemispheres	STUDY
G1000-3122 Atlases	STUDY
G1000-1000.5 Atlases of the moon, planets, etc.	MINIMAL
G1001-1046 World atlases. Atlases of the Earth	STUDY
G1050-1052 Northern and Southern Hemispheres	STUDY
G1053 Tropics. Torrid Zone	STUDY
G1054-1055 Polar regions. Frigid Zone	STUDY
G1059-1061 Maritime atlases (General)	MINIMAL
G1100-3102 By region or country	STUDY
G1100-1779 America. Western Hemisphere	STUDY
G1105-1692 North America	STUDY
G1110-1114 Greenland	MINIMAL
G1115-(1193) Canada	STUDY
G1200-1534.24 United States	STUDY
G1535-1537 Caribbean area G1540-1542	BASIC
G1540-1542 Latin America (General)	STUDY
G1545-1549 Mexico	STUDY
G1550-(1594) Central America	STUDY
G1600-1692 West Indies	MINIMAL
G1700-1779 South America	STUDY
G1780-2799 Eastern Hemisphere. Eurasia, Africa, etc.	STUDY
G1791-2196 Europe	STUDY
G2110-2196 Former Soviet republics. Union of Soviet Socialist Republics (U.S.S.R.). Russia (Empire)	STUDY
G2200-2444.84 Asia	STUDY
G2445-2739 Africa	STUDY
G2740-2799 Australasia	STUDY
G2800-3064 Oceans (General)	STUDY
G3100-3102 Antarctica	STUDY
G3122 Atlases of imaginary, literary, and mythological regions, etc., A-Z	OUT-OF-SCOPE
G3160-3171 Globes	MINIMAL
G3180-9980 Maps	BASIC
G3180-3182 Universe. Solar system	MINIMAL
G3190-3191 Celestial maps	MINIMAL
G3195-3197 Moon	MINIMAL
G3200-3202 World. Earth	BASIC
G3210-3221 Northern and Southern Hemispheres	BASIC
G3240-3241 Tropics. Torrid Zone	BASIC

G3250-3251 Temperate Zone	BASIC
G3260-3272 Polar regions. Frigid Zone	BASIC
G3290-9880 By region or country	BASIC
G3290-5667 America. Western Hemisphere	BASIC
G3300-5184 North America	STUDY
G3380-3384 Greenland	MINIMAL
G3400-(3612) Canada	BASIC
G3700-4384 United States	STUDY
G4390-4392 Caribbean area	MINIMAL
G4410-4763 Mexico	BASIC
G4800-4874 Central America	BASIC
G4900-5184 West Indies	MINIMAL
G5200-5667 South America	BASIC
G5670-8904 Eastern Hemisphere. Eurasia, Africa, etc.	BASIC
G5700-7342 Europe	BASIC
G7000-7342 Former Soviet republics. Union of Soviet Socialist Republics (U.S.S.R.). Russia (Empire)	BASIC
G7400-8198.54 Asia	BASIC
G8200-8904 Africa	BASIC
G8950-9084 Australasia	BASIC
G9095-9794 Oceans (General)	BASIC
G9800-9804 Antarctica	BASIC
G9900-9980 Unlocalized maps	MINIMAL
GA1-1776 Mathematical geography. Cartography	BASIC
GA51-87 Surveys (General)	MINIMAL
GA101-1776 Cartography	BASIC
GA109 Aerial cartography	BASIC
GA109.5 Cadastral mapping	MINIMAL
GA109.8 Statistical mapping	BASIC
GA110-115 Projection	BASIC
GA125-155 Map drawing, modeling, printing, reading, etc.	BASIC
GA192-197.3 Collections of maps, globes, etc. Map libraries	OUT-OF-SCOPE
GA197.5-198 Cartographers	OUT-OF-SCOPE
GA260-288 Globe making. Globes	OUT-OF-SCOPE
GA300-325 World maps, general atlases, etc.	BASIC
GA341-1776 Maps. By region or country	BASIC
GB3-5030 Physical geography	BASIC
GB400-649 Geomorphology. Landforms. Terrain	BASIC
GB447 Climatic geomorphology	BASIC
GB448 Slopes	MINIMAL
GB450-460 Coasts	BASIC
GB461-468.995 Reefs	BASIC
GB471-478.995 Islands	MINIMAL



GB500-555 Mountains. Orography	MINIMAL
GB561-649 Other natural landforms: Floodplains, caves, deserts, dunes, etc.	MINIMAL
GB651-2998 Hydrology. Water	RESEARCH
GB980-2998 Ground and surface waters	RESEARCH
GB980-992 Watersheds. Runoff. Drainage	STUDY
GB1001-1199.8 Groundwater. Hydrogeology	RESEARCH
GB1201-1598 Rivers. Stream measurements	STUDY
GB1601-2398 Lakes. Limnology. Ponds. Lagoons	RESEARCH
GB2401-2598 Ice. Glaciers. Ice sheets. Sea ice	BASIC
GB2601-2798 Snow. Snow surveys	MINIMAL
GB2801-2998 Hydrometeorology	BASIC
GB5000-5030 Natural disasters	BASIC
GC1-1581 Oceanography	BASIC
GC63 Oceanographic expeditions	MINIMAL
GC65-78 Underwater exploration	MINIMAL
GC83-87.6 Submarine topography	MINIMAL
GC96-97.8 Estuarine oceanography	MINIMAL
GC100-103 Seawater	MINIMAL
GC109-149 Chemical oceanography	BASIC
GC150-182 Physical oceanography	BASIC
GC151-155 Density	MINIMAL
GC160-177 Temperature	MINIMAL
GC177.6-182 Optical oceanography	MINIMAL
GC190-190.5 Ocean-atmosphere interaction	BASIC
GC200-376 Dynamics of the ocean	MINIMAL
GC205-227 Waves	MINIMAL
GC228.5-228.6 Ocean circulation	MINIMAL
GC229-296.8 Currents	MINIMAL
GC297-299 Water masses and oceanic mixing	MINIMAL
GC300-376 Tides	MINIMAL
GC377-399 Marine sediments	MINIMAL
GC401-881 Oceanography. By region	MINIMAL
GC1000-1023 Marine resources. Applied oceanography	MINIMAL
GC1080-1581 Marine pollution. Sea water pollution	MINIMAL
GE1-350 Environmental sciences	STUDY
GE70-90 Environmental education	STUDY
GE140-160 Environmental Conditions, Environmental Quality, Environmental Risk Assessment, Global Environmental Change	STUDY
GE170-190 Environmental policy	STUDY
GE195-199 Environmentalism. Green movement	STUDY

GE300-350 Environmental management	STUDY
GF1-900 Human ecology. Anthropogeography	RESEARCH
GF51 Environmental influences on humans	STUDY
GF75 Human influences on the environment	STUDY
GF101-127 Settlements	STUDY
GF125 Cities. Urban geography	BASIC
GF127 Rural settlements. Rural geography	BASIC
GF500-900 By region or country	BASIC
GR650-690 Geographical topics (Folklore)	OUT-OF-SCOPE
GT165-476 Houses. Dwellings	BASIC
GT5220-5286 Customs relative to transportation and travel	MINIMAL
H1-99 Social sciences (General)	BASIC
HB848-3697 Demography. Population. Vital events	BASIC
HC79 Special topics (Economic History) Including air pollution, automation, consumer demand, famines, flow of funds, etc.	MINIMAL
HC92 Economic geography of the oceans (General)	MINIMAL
HD28-9999 Industries. Land use. Labor	BASIC
HD101-1395.5 Land use Land tenure	STUDY
HD1470-1476 Size of farms	MINIMAL
HD1580 Reclamation of agricultural land. Melioration	STUDY
HD1635-1702 Utilization and culture of special classes of lands Including pasture lands, water resources development	STUDY
HD1711-1741 Irrigation	MINIMAL
HE1-9990 Transportation and communications	MINIMAL
HE323-328 Transportation geography. Trade routes	MINIMAL
HF1021-1027 Commercial geography. Economic geography	STUDY
HT51-1595 Communities. Classes. Races	STUDY
HT51-65 Human settlements. Communities	STUDY
HT101-395 Urban groups. The city. Urban sociology	BASIC
HT161-165 Garden cities. "The city beautiful"	MINIMAL
HT165.5-169.9 City planning	BASIC
HT170-178 Urban renewal. Urban redevelopment	STUDY
HT201-221 City population	BASIC
HT231 Effect of city life	BASIC
HT321-325 The city as an economic factor. City promotion	BASIC
HT330-334 Metropolitan areas	BASIC
HT351-352 Suburban cities and towns	BASIC
HT361-384 Urbanization. City and country	BASIC
HT388 Regional economics. Space in economics	BASIC
HT390-395 Regional planning	BASIC
HT401-485 Rural groups. Rural sociology	MINIMAL

JC319-323 Political geography	STUDY
P375-381 Linguistic geography	MINIMAL
QB275-343 Geodesy, Remote Sensing	STUDY
QC851-999 Meteorology. Climatology	BASIC
QE33 Earth Sciences (Remote Sensing )	RESEARCH
QH1-(199.5) Natural History (General), Including nature conservation, geographical distribution	STUDY
QK1-474.5 Botany (General), Including geographical distribution	BASIC
QL1-355 Zoology (General), Including geographical distribution	STUDY
RA791-954 Medical geography. Climatology. Meteorology	BASIC
S589.7 Agricultural ecology (General)	STUDY
S589.75-589.76 Agriculture and the environment	STUDY
S590-599.9 Soils. Soil science, Including soil surveys, soil chemistry, soil structure, soil-plant relationships	STUDY
S604.8-621.5 Melioration: Improvement, reclamation, fertilization, irrigation, etc., of lands	BASIC
S606-621.5 Special classes of lands and reclamation methods, Including woodlands, burning of lands, deserts, saline environments, moors	BASIC
S622-627 Soil conservation and protection	BASIC
S900-(972) Conservation of natural resources, Including land conservation	BASIC